

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092420\  
 Data File : VV018428.D  
 Acq On : 24 Sep 2020 14:51  
 Operator : SY/MD  
 Sample : L4109-04ME  
 Misc : 5.83g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3W8ME

Manual Integrations  
 APPROVED

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 9/30/2020 3:43:11 PM

Quant Time: Sep 25 05:38:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 25 04:36:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 421340   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 417249   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 225909   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 140902   | 41.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.06%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 119125   | 42.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.10    | 63    | 218808   | 34.74    | ug/L | -0.02   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.48%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 226802   | 107.91   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.91% |
| 24) Chloroform-d               | 4.37    | 84    | 306354   | 51.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.84% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 204545   | 53.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.12% |
| 32) Benzene-d6                 | 5.07    | 84    | 628684   | 52.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.26% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 203035   | 53.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.00% |
| 41) Toluene-d8                 | 7.34    | 98    | 588478   | 54.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.12% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 103971   | 53.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 107.82% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 177318m  | 123.34   | ug/L | 0.04    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 123.34% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25   | 84    | 263682   | 55.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 110.70% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 266864   | 57.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 115.04% |

## Target Compounds

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 20) cis-1,2-Dichloroethene | 3.93  | 96   | 10236    | 3.359  | ug/L   | 97     |
| 29) Cyclohexane            | 4.69  | 56   | 43924    | 9.116  | ug/L   | 98     |
| 30) 1,1,1-Trichloroethane  | 4.63  | 97   | 34252    | 7.073  | ug/L   | 99     |
| 42) Toluene                | 7.41  | 91   | 425511   | 33.704 | ug/L   | 99     |
| 52) Ethylbenzene           | 9.04  | 91   | 158879   | 11.527 | ug/L   | 100    |
| 53) m,p-Xylene             | 9.16  | 106  | 270630   | 52.604 | ug/L   | 96     |
| 54) o-xylene               | 9.57  | 106  | 104308   | 21.046 | ug/L   | 99     |
| 56) Isopropylbenzene       | 9.95  | 105  | 116196   | 8.699  | ug/L   | 99     |
| 65) 1,2-Dichlorobenzene    | 11.67 | 146  | 6773     | 0.998  | ug/L # | 84     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

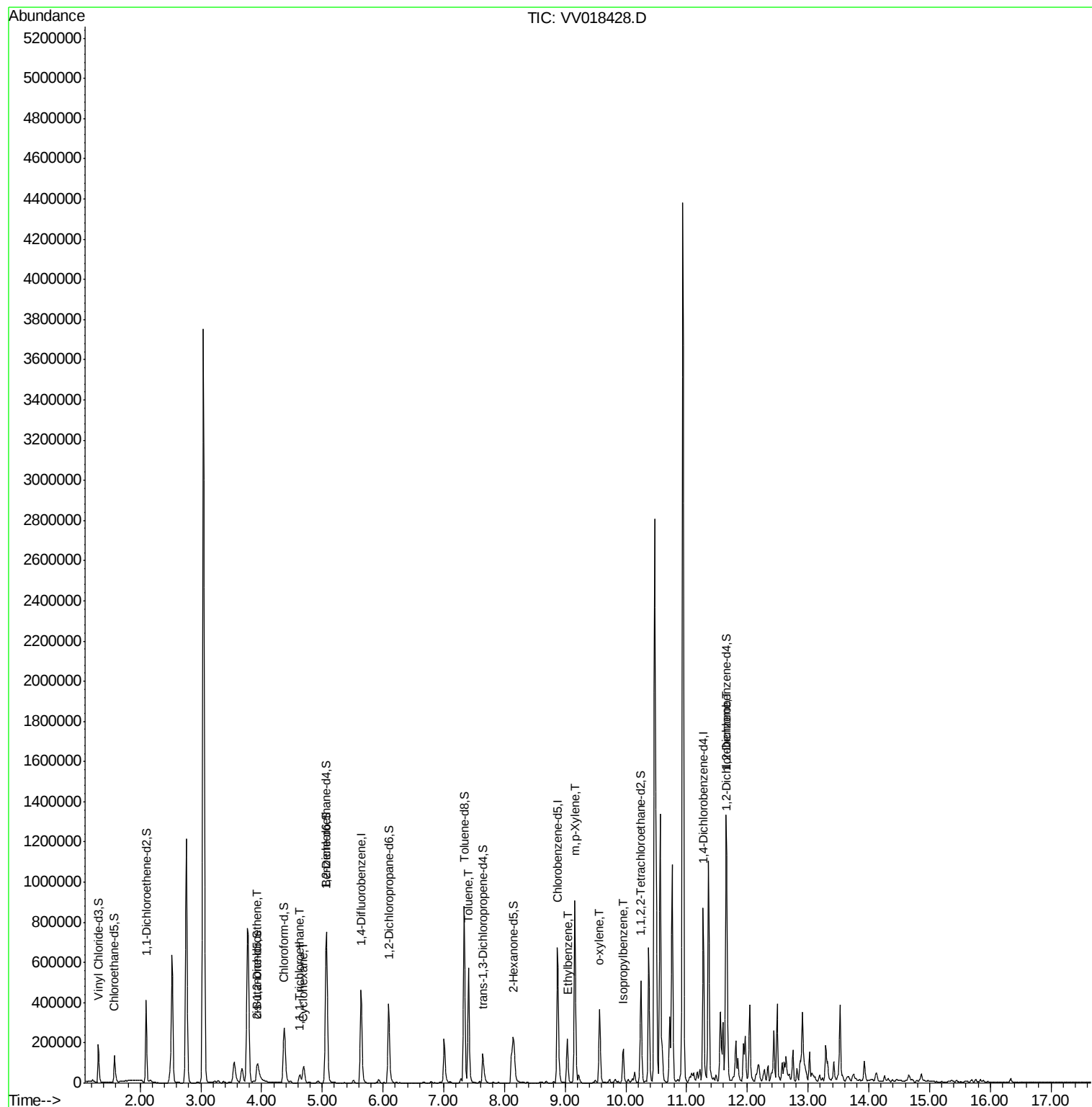
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV092420\  
Data File : VV018428.D  
Acq On : 24 Sep 2020 14:51  
Operator : SY/MD  
Sample : L4109-04ME  
Misc : 5.83g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 13 Sample Multiplier: 1

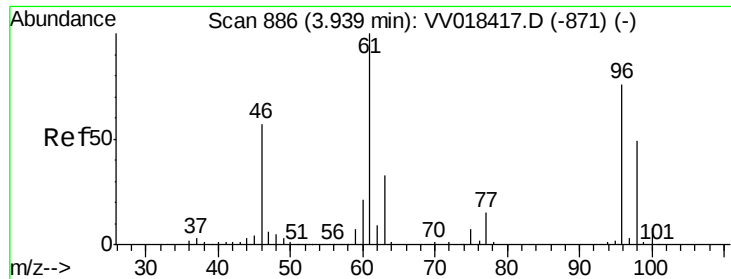
Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3W8ME

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Quant Time: Sep 25 05:38:34 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 25 04:36:20 2020  
Response via : Initial Calibration





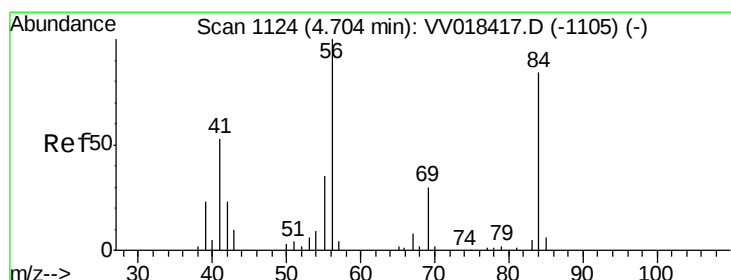
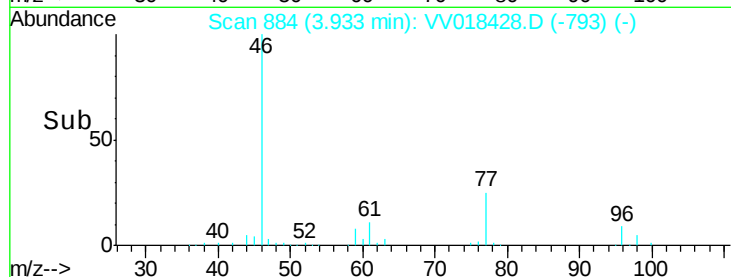
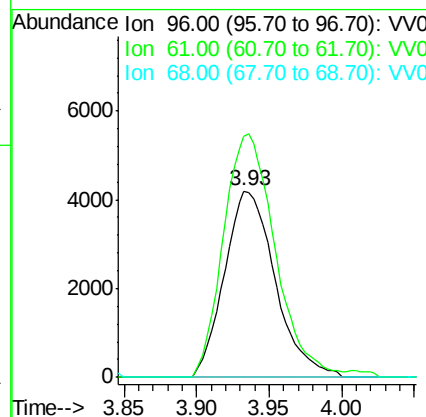
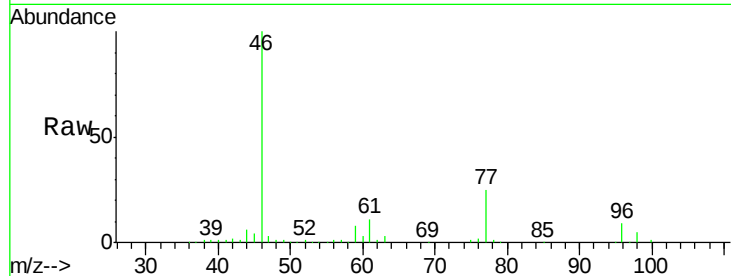
#20  
 cis-1,2-Dichloroethene  
 Concen: 3.359 ug/L  
 RT: 3.93 min Scan# 884  
 Delta R.T. -0.01 min  
 Lab File: VV018428.D  
 Acq: 24 Sep 2020 14:51

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3W8ME

| Tot Ion | Ion   | Ratio | Resp | Lower | Upper |
|---------|-------|-------|------|-------|-------|
| 96      | 100   |       |      |       |       |
| 61      | 129.6 |       | 93.6 | 173.8 |       |
| 68      | 0.0   |       | 0.0  | 0.0   |       |

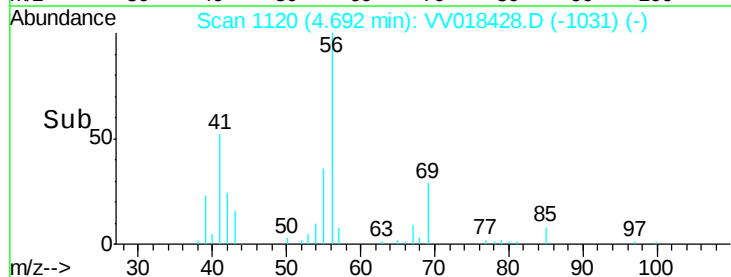
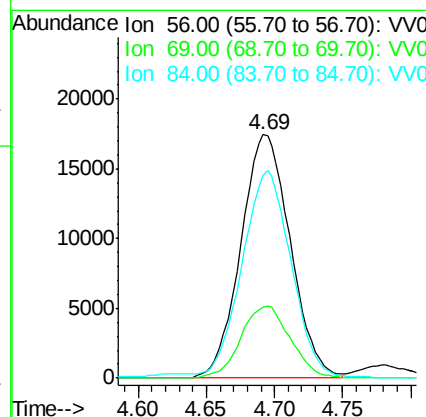
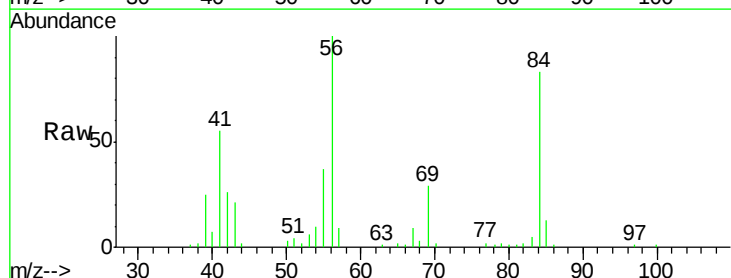
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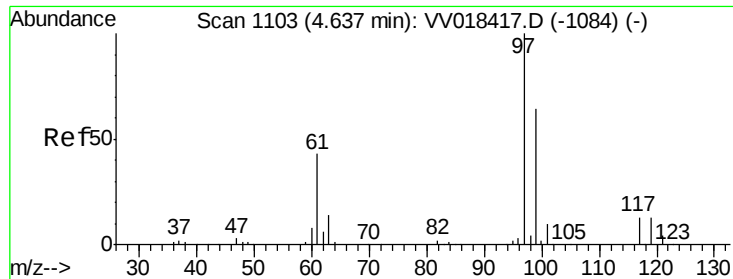
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#29  
 Cyclohexane  
 Concen: 9.116 ug/L  
 RT: 4.69 min Scan# 1120  
 Delta R.T. -0.01 min  
 Lab File: VV018428.D  
 Acq: 24 Sep 2020 14:51

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 56      | 100  |       |      |       |       |
| 69      | 29.6 |       | 24.2 | 36.2  |       |
| 84      | 83.0 |       | 68.3 | 102.5 |       |





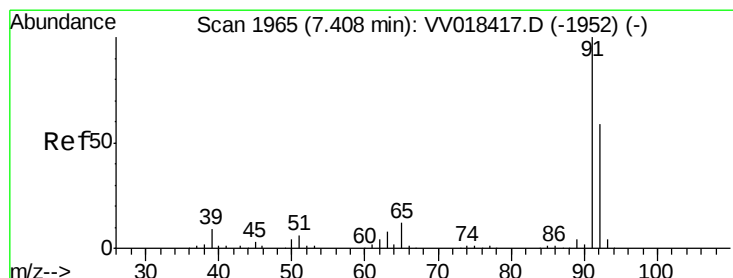
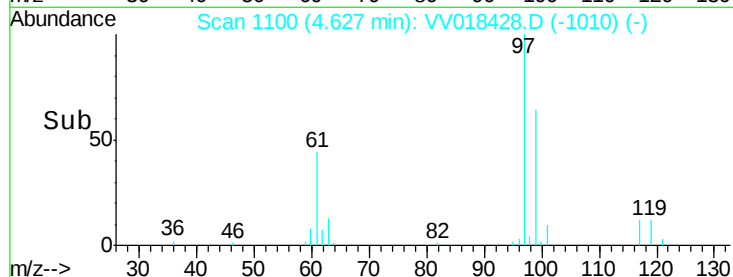
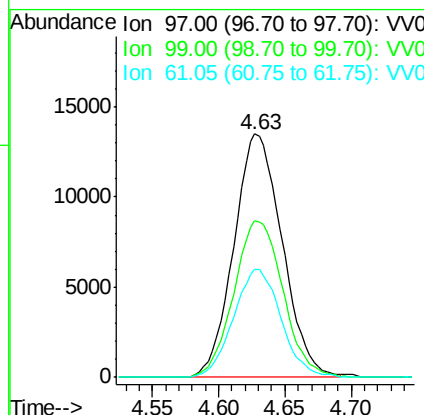
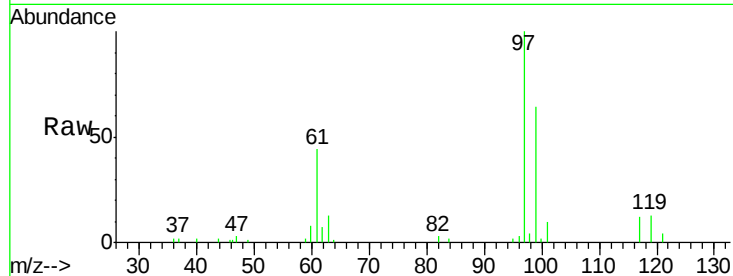
#30  
 1,1,1-Trichloroethane  
 Concen: 7.073 ug/L  
 RT: 4.63 min Scan# 1100  
 Delta R.T. -0.01 min  
 Lab File: VV018428.D  
 Acq: 24 Sep 2020 14:51

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3W8ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.1  | 51.6  | 77.4  |
| 61      | 43.6  | 34.9  | 52.3  |

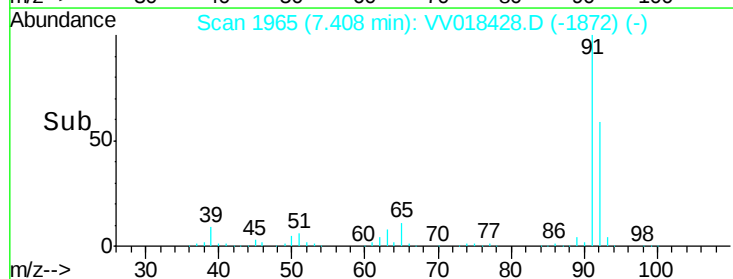
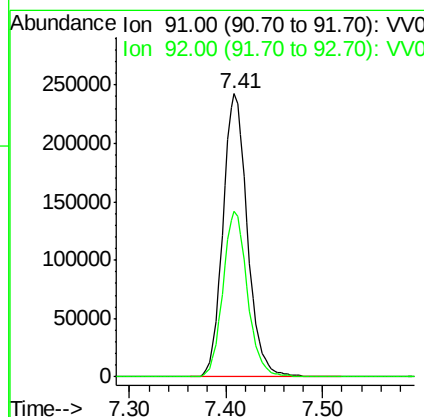
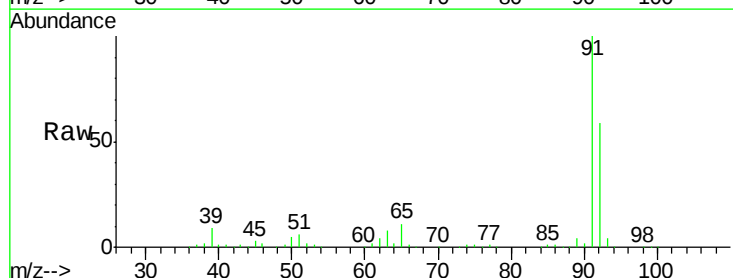
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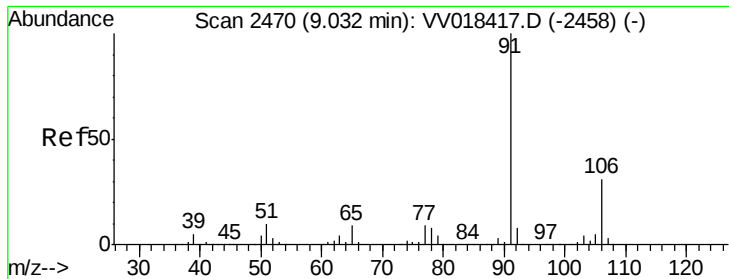
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#42  
 Toluene  
 Concen: 33.704 ug/L  
 RT: 7.41 min Scan# 1965  
 Delta R.T. -0.00 min  
 Lab File: VV018428.D  
 Acq: 24 Sep 2020 14:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 58.5  | 40.7  | 75.5  |





#52

Ethylbenzene

Concen: 11.527 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

BG3W8ME

Tot Ion: 91 Resp: 158879

Ion Ratio Lower Upper

91 100

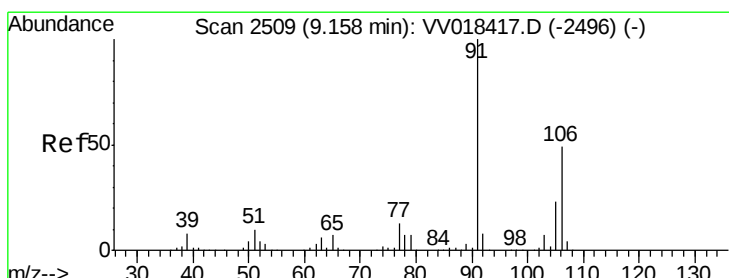
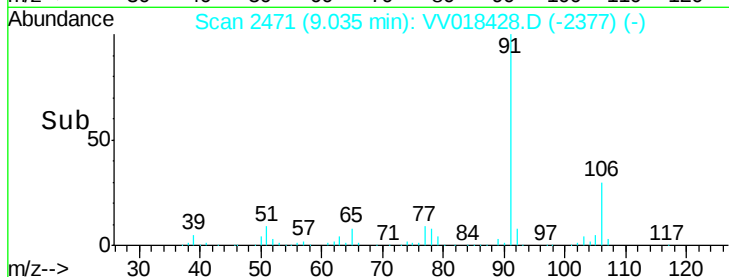
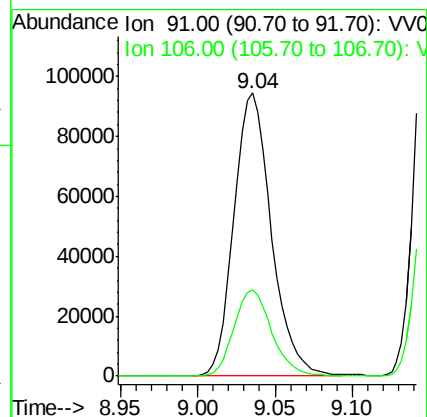
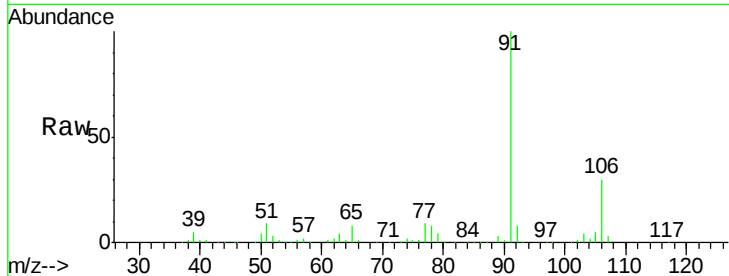
106 30.4 21.3 39.5

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#53

m,p-Xylene

Concen: 52.604 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV018428.D

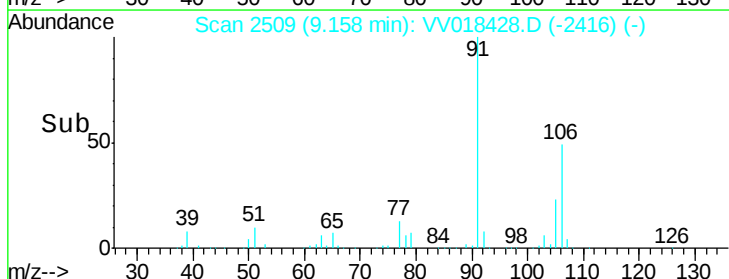
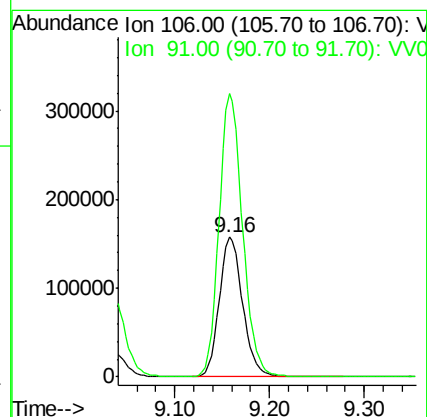
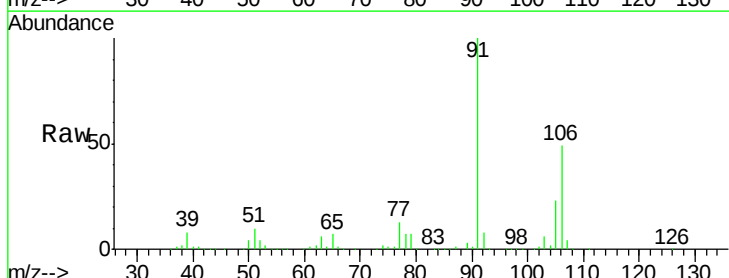
Acq: 24 Sep 2020 14:51

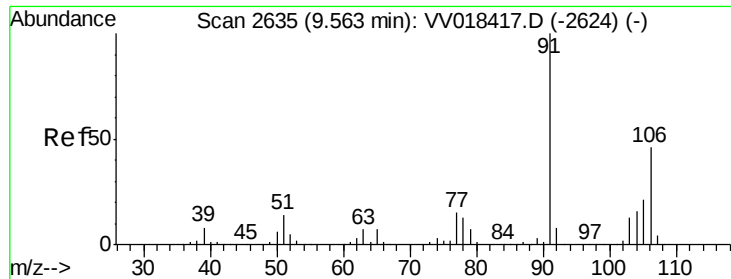
Tgt Ion: 106 Resp: 270630

Ion Ratio Lower Upper

106 100

91 203.0 146.7 272.5





#54

o-xylene

Concen: 21.046 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

BG3W8ME

Tot Ion:106 Resp: 104308

Ion Ratio Lower Upper

106 100

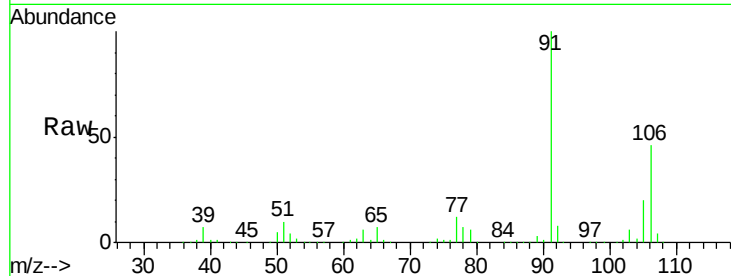
91 218.9 152.2 282.6

Manual Integrations

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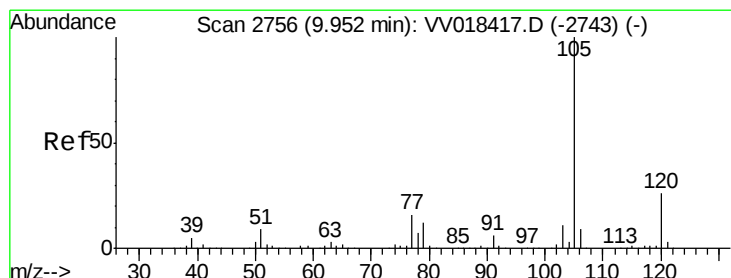
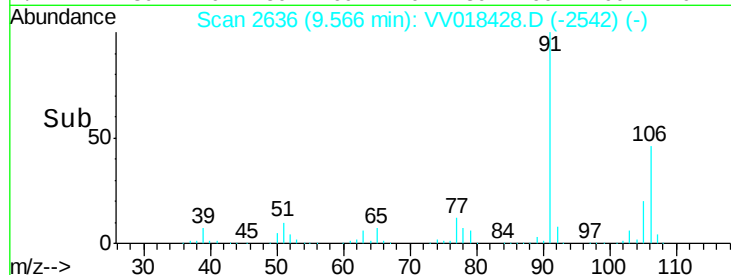
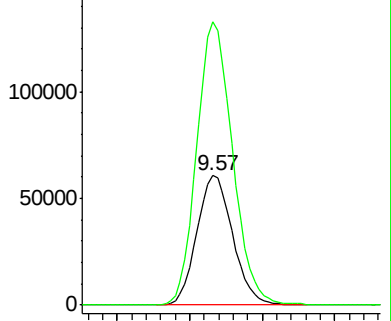
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Isopropylbenzene

Concen: 8.699 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV018428.D

Acq: 24 Sep 2020 14:51

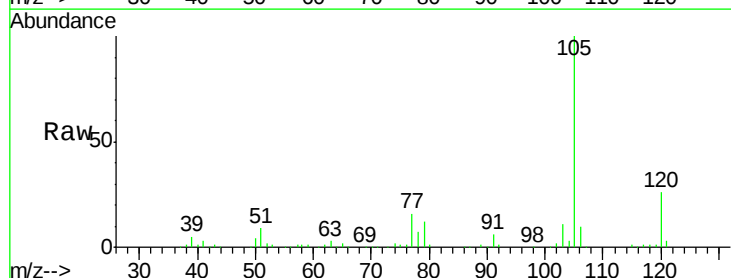
Tgt Ion:105 Resp: 116196

Ion Ratio Lower Upper

105 100

120 25.9 20.9 31.3

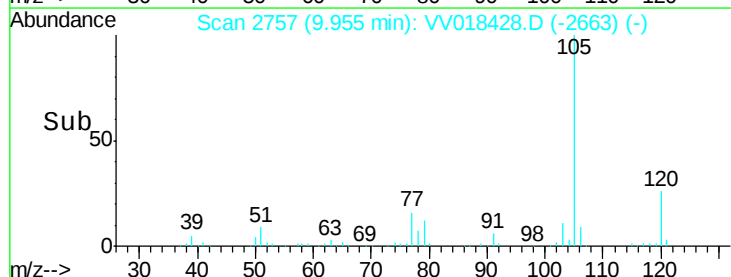
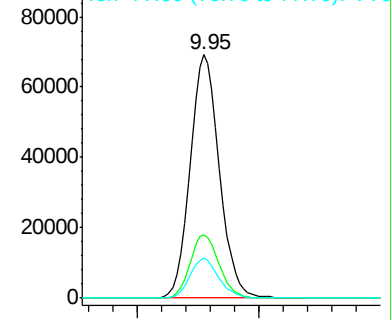
77 16.1 12.5 18.7

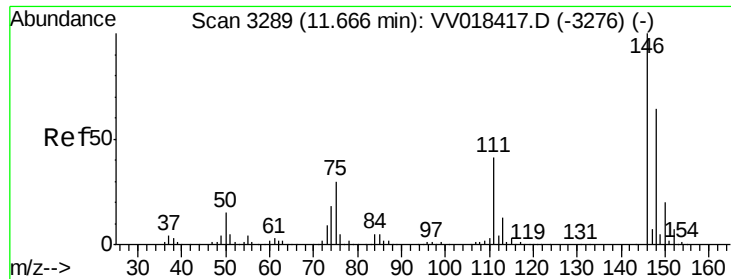


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#65  
 1,2-Dichlorobenzene  
 Concen: 0.998 ug/L  
 RT: 11.67 min Scan# 3290  
 Delta R.T. 0.00 min  
 Lab File: VV018428.D  
 Acq: 24 Sep 2020 14:51

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3W8ME

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 61.5  | 32.8  | 49.2# |
| 148     | 67.0  | 50.7  | 76.1  |

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